AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1-18. (Canceled)
- 19. (Currently Amended) A method of producing a digital printing ink, comprising the steps:

dispersing sublimatible coloring agents in a mixture of oligomers and monomers with a maximum particle size of 1 micron;

subsequently diluting-same the mixture of oligomers and monomers comprising the dispersed sublimatible coloring agents with a mixture of monofunctional and multifunctional acrylic monomers until a viscosity of between 10 and 30 centipoises, measured at 25 °C, is obtained;

subsequently introducing a photoinitiator system, which causes the polymerization of the oligomers and monomers from the first step, in the presence of radiation; and

subsequently subjecting the resulting ink to a filtering process, to obtain particles by means of at least one filter, finalizing with a 1 micron filter

whereineharacterized by the production of free radicals that react with the oligomers and monomers when the resulting ink is printed on a media and the a referred radiation source is applied to this the ink, fracturing the molecules of the photoinitiator system are fractured and free radicals are produced that react with the oligomers and monomers, thus producing a polymer that sets the dispersing sublimatible coloring agents on the media.

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- 20. (Currently Amended) The method according to claim 19, characterized by having comprising isobornyl acrylate among the monofunctional acrylic monomers, with a ratio of 25% to 55% of total acrylic monomers.
- 21. (Currently Amended) The method according to claim 19, characterized by having comprising bifunctional and trifunctional multifunctional acrylic monomers with a ratio of 44% to 75% of total acrylic monomers.
- 22. (Currently Amended) The method according to claim 21, characterized by having comprising hexandioldiacrylate among the bifunctional acrylic monomers.
- 23. (Currently Amended) The method according to claim 21, characterized by comprising tripropyleneglycoldiacrylate among the bifunctional acrylic monomers.
- 24. (Currently Amended) The method according to claim 21, characterized by having comprising trimethylolpropanetriacrylate among the trifunctional acrylic monomers.
- 25. (Currently Amended) The method according to claim 19, characterized by having comprising the source of radiation be at least one source of ultraviolet light.
- 26. (Currently Amended) The method according to claim 19, characterized by having comprising the source of radiation be a bombardment of electrons.
- 27. (Currently Amended) A digital printing ink produced according to the method of claim 19, wherein sublimatible coloring agents are dispersed in an organic medium dispersed in a mixture of oligomers and monomers with a maximum particle size of 1 micron; diluting it with a mixture of monofunctional and multifunctional acrylic monomers until a viscosity of between 10 and 30 centipoises, measured at 25 °C, is obtained; with a photoinitiator system which causes the polymerization of the oligomers and monomers from the first step, subjecting the resulting ink to at least one filter, finalizing with a 1 micron filter-characterized by having:

and comprising:

- isobornyl acrylate as the monofunctional acrylic monomer, with a ratio of 25% to 55%; and
- bifunctional and trifunctional multifunctional acrylic monomers, with a ratio of 44% to 75%.
- 28. (Currently Amended) The ink according to claim 27, characterized by having comprising hexandioldiacrylate among the bifunctional acrylic monomers.
- 29. (Currently Amended) The ink according to claim 27, characterized by having comprising tripropyleneglycoldiacrylate among the bifunctional acrylic monomers.
- 30. (Currently Amended) The ink according to claim 27, characterized by having comprising trimethylolpropanetriacrylate among the trifunctional acrylic monomers.